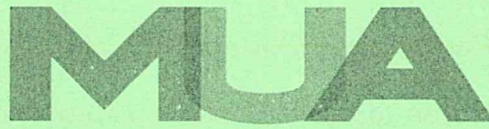


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**UNDERGRADUATE UNIVERSITY EXAMINATIONS**  
**SCHOOL OF MANAGEMENT AND LEADERSHIP**  
**DEGREE OF BACHELOR OF MANAGEMENT AND LEADERSHIP/**  
**BACHELOR OF ARTS IN DEVELOPMENT STUDIES**

UCU 103: LOGIC AND CRITICAL THINKING

DATE: 5<sup>TH</sup> DECEMBER 2016

DURATION: 2 HOURS

MAXIMUM MARKS: 70

**INSTRUCTIONS:**

1. Write your registration number on the answer booklet.
2. **DO NOT** write on this question paper.
3. This paper contains **SIX (6)** questions.
4. Question **ONE** is compulsory.
5. Answer any other **THREE** questions.
6. Question **ONE** carries **25 MARKS** and the rest carry **15 MARKS** each: **ONE** carries **25 MARKS** and the rest carry **15 MARKS** each.
7. Write all your answers in the Examination answer booklet provided.



**QUESTION ONE**

Read the Case Study below carefully and answer the questions that follow:

Some American tourist visited Kenya, excited to be Africa, on their first day after arrival, they decided to sample different African dishes. After this first meal, some tourist developed stomach complications that landed all of them to the hospital that night. In order to know what caused the problem, the doctors suspected that the problem was caused by something they had taken during the day. He took record of what each of them had eaten on arrival and found that Peter sampled; Mukimo, Matoke, Nyoyo, Samaki and Mbuzi, Mary sampled; murenda, Mukimo, wali, Mbuzi and Nyoyo, Joan sampled; murenda, Matoke, Samaki and Nyoyo, Mark sampled; Samaki, Matoke and Murenda, Kevin sampled; wali and Mbuzi and Purity sampled; Samaki, Matoke and Mukimo

The doctor's analysis result showed that it was only Peter, Mary and Joan who vomited while Mark, Kevin and Purity did not.

**Required;**

- a) Explain the purpose of critical thinking to doctors (8 marks)
- b) Construct a table to help find out what food the three sick (10 Marks)
- c) Giving reasons, use the table to identify the food that made them sick. (3 Marks)
- d) Giving reasons, discuss the Mills method of causality and identify the method you have applied in arriving at your conclusion of the food that made them sick (4 Marks)

**QUESTION TWO**

- a) Proof validity of the following statement using Modern Square of opposition. "Because some presidents invited some opposition chiefs and they attended; then it is true that if all presidents invited some opposition leaders they will attend the celebrations". (12 marks)



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- b) Identify the subject term, the predicate term and the couple in the following categorical proposition: "All presidential candidates who like opposition leaders are people worth their salt". (3 Marks)

### QUESTION THREE

- a) Defining logic, explaining its importance to students of logic and critical thinking. (5 marks )
- b) Giving examples, discuss five ways in which deductive and inductive argument reasoning differ from each other (10 marks)

### QUESTION FOUR

A manager's diary consists of various activities that call for logic and critical thinking. With practical examples, explain the role played by logical thinking in each of the following activities

- |   |            |
|---|------------|
| a. Problem identification               | (3 Marks ) |
| b. Data collection and analysis         | (3 Marks)  |
| c. Alternative generation and selection | (3 Marks)  |
| d. Solution implementation              | (3 Marks)  |
| e. Monitoring and control               | (3 Marks)  |

### QUESTION FIVE

Define the following concepts in logic, explaining how managers apply them in their everyday work

- |                        |           |
|------------------------|-----------|
| a. Cognition           | (3 marks) |
| b. Trial and error     | (3 marks) |
| c. Algorithms          | (3 marks) |
| d. Heuristics          | (3 marks) |
| e. Convergent thinking | (3 marks) |

### QUESTION SIX

- a. Discuss any two approaches that moral reasoning can take and explain how each is applicable in real life situation (6 Marks)
- b. Discuss how any three fallacies of relevance are applied in everyday life of a manager. (9 marks)

